

EAST Search History (Prior Art)

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|-------|---|---|------------------|---------|------------------|
| S1 | 1 | "4731195".pn. | US-PGPUB; USPAT | OR | OFF | 2009/06/15 08:49 |
| S2 | 1 | "5478482".pn. | US-PGPUB; USPAT | OR | OFF | 2009/06/15 08:51 |
| S3 | 4 | US-6068791-\$.DID. OR US-5478482-\$.DID. OR US-5670059-\$.DID. OR US-5514287-\$. DID. | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/06/15 10:35 |
| S4 | 2 | US-4731195-\$.DID. OR US-5478482-\$.DID. | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/06/15 10:47 |
| S5 | 11 | ((THEODOR) near2 (FISHLER)).INV. | US-PGPUB; USPAT | OR | OFF | 2009/06/15 10:56 |
| S6 | 13 | ((THEODOR) near2 (FISHLER)).INV. | EPO; JPO; DERWENT | OR | OFF | 2009/06/15 11:01 |
| S7 | 3 | trichloro near cyanuric | EPO; JPO; DERWENT | OR | OFF | 2009/06/15 11:04 |
| S8 | 72 | trichlorocyanuric | EPO; JPO; DERWENT | OR | OFF | 2009/06/15 11:05 |
| S9 | 562 | trichlorocyanuric or trichloroisocyanuric | EPO; JPO; DERWENT | OR | OFF | 2009/06/15 11:05 |
| S10 | 2282 | trichlorocyanuric or trichloroisocyanuric | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2009/06/15 11:06 |
| S11 | 25965 | borax or (sodim near borate\$1) or (sodium near tetraborate\$1) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2009/06/15 11:06 |
| S12 | 49869 | sodium near silicate\$1 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2009/06/15 11:07 |
| S13 | 3115 | S11 and S12 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2009/06/15 11:07 |
| S14 | 208 | S13 and S10 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2009/06/15 11:07 |
| S15 | 189 | S14 and (clean\$4 or biocid\$4 or microb\$7) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2009/06/15 11:08 |

EAST Search History (Prior Art)

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| S16 | 140 | S15 and (fire or heat\$4 or pyrophor\$5) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2009/06/15 11:08 |
| S17 | 13 | S15 and (fire or pyrophor\$5) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2009/06/15 11:12 |
| S18 | 84 | S16 and glass | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2009/06/15 11:13 |
| S19 | 40610 | borax or (sodium near borat\$2) or (sodium near tetraborat\$2) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2009/06/15 11:39 |
| S20 | 49871 | sodium near silicat\$2 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2009/06/15 11:40 |
| S21 | 5168 | S19 and S20 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2009/06/15 11:40 |
| S22 | 291 | S21 and (glass near transition) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2009/06/15 11:40 |
| S23 | 147 | S22 and (disinfect\$5 or clean\$4 or \$5biocid\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2009/06/15 11:41 |
| S24 | 113 | S23 and (fire or pyro\$7) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2009/06/15 11:42 |
| S25 | 205 | S21 and (glass NEAR form\$6) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2009/06/15 11:45 |
| S26 | 62 | S25 and (disinfect\$5 or clean\$4 or \$5biocid\$5) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2009/06/15 11:46 |
| S27 | 40619 | borax or (sodium near borat\$2) or (sodium near tetraborat\$2) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2009/06/16 14:22 |

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|-----|-------|--|---|----|-----|------------------|
| S28 | 49880 | sodium near silicat\$2 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2009/06/16 14:22 |
| S29 | 5169 | S27 and S28 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2009/06/16 14:22 |
| S30 | 291 | S29 and (glass near transition) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2009/06/16 14:22 |
| S31 | 147 | S30 and (disinfect\$5 or clean\$4 or \$5biocid\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2009/06/16 14:22 |
| S32 | 147 | S31 and (disinfect\$5 or clean\$4 or \$5biocid\$5) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2009/06/16 14:22 |
| S33 | 5 | S31 and (glass NEAR form\$6) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2009/06/16 14:23 |
| S34 | 113 | S31 and (fire or pyro\$7) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2009/06/16 14:24 |
| S35 | 113 | S34 and (disinfect\$4 or clean\$5 or \$5biocid\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2009/06/16 14:25 |
| S36 | 2 | "20080038303".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2009/06/16 15:14 |
| S37 | 2 | "20060051284".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2009/06/16 15:20 |
| S38 | 4 | "2003018680".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2009/06/16 15:22 |
| S39 | 2 | "7129291".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2009/06/16 15:23 |

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| S40 | 3 | "3325411".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2009/06/16 15:25 |
| S41 | 1 | "1996011167".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2009/06/16 15:27 |
| S42 | 5 | "2003002467".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2009/06/16 15:29 |
| S43 | 13 | ("3112274" "3154494" "3703470" "3908045" "3962106" "3989635" "4078099" "4110487" "4136052" "4327151").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/06/18 14:09 |
| S44 | 28 | ("4731195").URPN. | USPAT | OR | OFF | 2009/06/18 14:09 |
| S45 | 2285 | trichlorocyanuric or trichloroisocyanuric | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2009/06/18 14:16 |
| S46 | 2285 | trichlorocyanuric or trichloroisocyanuric | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2009/06/18 14:16 |
| S47 | 17 | S46 and (heat near steril\$8) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2009/06/18 14:16 |
| S48 | 72 | S46 and fire | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2009/06/18 14:17 |
| S49 | 20 | S48 and steril\$8 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2009/06/18 14:18 |
| S50 | 102219 | borate\$s or (boric near acid\$1) or borax | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2009/06/18 14:21 |
| S51 | 10363 | S50 same silicat\$2 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2009/06/18 14:21 |
| S52 | 357 | S51 same melt\$5 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2009/06/18 14:22 |

EAST Search History (Prior Art)

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|-----|--------|---|---|----|-----|------------------|
| S53 | 35 | S52 and \$2capsulat\$4 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2009/06/18 14:22 |
| S54 | 25995 | borax or (sodim near borate\$1) or (sodium near tetraborate\$1) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2009/06/18 14:34 |
| S55 | 49916 | sodium near silicate\$1 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2009/06/18 14:34 |
| S56 | 3123 | S54 and S55 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2009/06/18 14:34 |
| S57 | 587 | S56 and \$2capsulat\$4 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2009/06/18 14:34 |
| S58 | 317 | S57 and glass | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2009/06/18 14:35 |
| S59 | 330245 | S58 and fire or flam\$3 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2009/06/18 14:43 |
| S60 | 58 | S58 and (fire or flam\$3) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2009/06/18 14:43 |
| S61 | 12 | ((THEODOR) near2 (FISHLER)).INV. | US-PGPUB; USPAT | OR | OFF | 2009/12/15 08:43 |
| S62 | 13 | ((THEODOR) near2 (FISHLER)).INV. | EPO; JPO; DERWENT | OR | OFF | 2009/12/15 08:43 |
| S63 | 0 | ("2008/0119472").URPN. | USPAT | OR | OFF | 2009/12/15 08:45 |
| S64 | 1922 | trichloroisocyanuric with acid | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2009/12/15 08:46 |
| S65 | 3019 | boric with silicate\$1 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2009/12/15 08:46 |

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| S66 | 7 | S64 and S65 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2009/12/15 08:46 |
| S67 | 346 | boric adj4 silicate\$1 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2009/12/15 08:48 |
| S68 | 44 | S67 and bleach\$4 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2009/12/15 08:49 |
| S69 | 156 | S64 same heat\$4 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2009/12/15 09:14 |
| S70 | 6 | S69 and boric | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2009/12/15 09:14 |
| S71 | 1074 | S64 and heat\$4 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2009/12/15 09:18 |
| S72 | 190 | S71 and boric | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2009/12/15 09:18 |
| S73 | 140 | S72 and silicate\$1 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2009/12/15 09:19 |
| S74 | 100 | S73 and glass | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2009/12/15 09:19 |
| S75 | 1922 | trichloroisocyanuric with acid | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2009/12/15 09:46 |

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|-----|------|----------------------------------|---|----|-----|------------------|
| S76 | 1074 | S75 and heat\$4 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2009/12/15 09:46 |
| S77 | 190 | S76 and boric | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2009/12/15 09:46 |
| S78 | 140 | S77 and silicate\$1 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2009/12/15 09:46 |
| S79 | 100 | S78 and glass | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2009/12/15 09:46 |
| S80 | 40 | S78 not S79 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2009/12/15 09:46 |
| S81 | 12 | ((THEODOR) near2 (FISHLER)).INV. | US-PGPUB; USPAT | OR | OFF | 2010/02/22 08:29 |
| S82 | 13 | ((THEODOR) near2 (FISHLER)).INV. | EPO; JPO; DERWENT | OR | OFF | 2010/02/22 08:30 |
| S83 | 488 | bromine adj compounds.as. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2010/02/22 08:30 |
| S84 | 116 | bromine adj compounds.as. | US-PGPUB; USPAT; USOCR | OR | OFF | 2010/02/22 08:31 |
| S85 | 4 | S84 and silicate\$1 | US-PGPUB; USPAT; USOCR | OR | OFF | 2010/02/22 08:31 |
| S86 | 1 | "19541755".pn. | EPO; JPO; DERWENT | OR | OFF | 2010/07/14 11:46 |
| S87 | 7 | "2214923".pn. | EPO; JPO; DERWENT | OR | OFF | 2010/07/14 11:47 |
| S88 | 1 | "5102571".pn. | US-PGPUB; USPAT | OR | OFF | 2010/07/14 11:49 |
| S89 | 1 | "5219549".pn. | US-PGPUB; USPAT | OR | OFF | 2010/07/14 11:50 |
| S90 | 6 | "544440".pn. | EPO; JPO; DERWENT | OR | OFF | 2010/07/14 11:51 |

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| S91 | 1 | "1993021297".pn. | EPO; JPO; DERWENT | OR | OFF | 2010/07/14 11:52 |
| S92 | 6 | "578987".pn. | EPO; JPO; DERWENT | OR | OFF | 2010/07/14 11:53 |
| S93 | 1 | "4539131".pn. | US-PGPUB; USPAT | OR | OFF | 2010/07/14 11:54 |
| S94 | 1 | "4655953".pn. | US-PGPUB; USPAT | OR | OFF | 2010/07/14 11:54 |
| S95 | 1 | "4526699".pn. | US-PGPUB; USPAT | OR | OFF | 2010/07/14 11:55 |
| S96 | 7 | "2172300".pn. | EPO; JPO; DERWENT | OR | OFF | 2010/07/14 11:57 |
| S97 | 4 | "2652488".pn. | EPO; JPO; DERWENT | OR | OFF | 2010/07/14 11:58 |
| S98 | 2 | "3154496".pn. | US-PGPUB; USPAT; USOCR | OR | OFF | 2010/07/14 11:59 |
| S99 | 12 | ((THEODOR) near2 (FISHLER)).INV. | US-PGPUB; USPAT | OR | OFF | 2010/07/14 12:02 |
| S10 0 | 13 | ((THEODOR) near2 (FISHLER)).INV. | EPO; JPO; DERWENT | OR | OFF | 2010/07/14 12:03 |
| S10 1 | 121 | bromine adj compounds.as. | US-PGPUB; USPAT; USOCR | OR | OFF | 2010/07/14 12:03 |
| S10 2 | 552934 | \$6silicate\$1 or boric or \$6borate\$1 or borax | US-PGPUB; USPAT; USOCR | OR | OFF | 2010/07/14 12:04 |
| S10 3 | 17 | S101 and S102 | US-PGPUB; USPAT; USOCR | OR | OFF | 2010/07/14 12:04 |
| S10 4 | 647 | 514/245.ccls. | US-PGPUB; USPAT; USOCR | OR | OFF | 2010/07/14 12:22 |
| S10 5 | 447 | 510/345,379.ccls. | US-PGPUB; USPAT; USOCR | OR | OFF | 2010/07/14 12:22 |
| S10 6 | 644 | 423/332.ccls. | US-PGPUB; USPAT; USOCR | OR | OFF | 2010/07/14 12:22 |
| S10 7 | 204 | S102 and S104 | US-PGPUB; USPAT; USOCR | OR | OFF | 2010/07/14 12:23 |
| S10 8 | 256 | S102 and S105 | US-PGPUB; USPAT; USOCR | OR | OFF | 2010/07/14 12:23 |
| S10 9 | 486 | S102 and S106 | US-PGPUB; USPAT; USOCR | OR | OFF | 2010/07/14 12:24 |

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| S11 0 | 1285499 | \$5biocid\$3 or bleach\$4 or clean\$4 or antiseptic\$1 | US-PGPUB; USPAT; USOCR | OR | OFF | 2010/07/14 12:25 |
| S11 1 | 129 | S109 and S110 | US-PGPUB; USPAT; USOCR | OR | OFF | 2010/07/14 12:25 |
| S11 2 | 1 | "20040072712".pn. | US-PGPUB; USPAT | OR | OFF | 2011/06/27 11:13 |
| S11 3 | 1 | "20040040915".pn. | US-PGPUB; USPAT | OR | OFF | 2011/06/27 11:37 |
| S11 4 | 1 | "5464636".pn. | US-PGPUB; USPAT | OR | OFF | 2011/06/27 11:46 |
| S11 5 | 1 | "5464670".pn. | US-PGPUB; USPAT | OR | OFF | 2011/06/27 11:54 |
| S11 6 | 1 | "5476670".pn. | US-PGPUB; USPAT | OR | OFF | 2011/06/27 11:54 |
| S11 7 | 1 | "5688515".pn. | US-PGPUB; USPAT | OR | OFF | 2011/06/27 11:55 |
| S11 8 | 1 | "5527547".pn. | US-PGPUB; USPAT | OR | OFF | 2011/06/27 11:56 |
| S11 9 | 1 | "5662940".pn. | US-PGPUB; USPAT | OR | OFF | 2011/06/27 11:56 |
| S12 0 | 1 | "5510108".pn. | US-PGPUB; USPAT | OR | OFF | 2011/06/27 11:57 |
| S12 1 | 1 | "5851406".pn. | US-PGPUB; USPAT | OR | OFF | 2011/06/27 11:59 |
| S12 2 | 1 | "6462317".pn. | US-PGPUB; USPAT | OR | OFF | 2011/06/27 12:12 |
| S12 3 | 1 | "6426317".pn. | US-PGPUB; USPAT | OR | OFF | 2011/06/27 12:12 |
| S12 4 | 8 | "1095910".pn. | EPO; JPO; DERWENT | OR | OFF | 2011/06/27 12:17 |
| S12 5 | 6 | "2354771".pn. | EPO; JPO; DERWENT | OR | OFF | 2011/06/27 12:22 |
| S12 6 | 0 | "199909123".pn. | EPO; JPO; DERWENT | OR | OFF | 2011/06/27 12:31 |
| S12 7 | 1 | "1999009123".pn. | EPO; JPO; DERWENT | OR | OFF | 2011/06/27 12:32 |
| S12 8 | 4 | "2001068792".pn. | EPO; JPO; DERWENT | OR | OFF | 2011/06/27 12:38 |
| S12 9 | 5 | "2003011769".pn. | EPO; JPO; DERWENT | OR | OFF | 2011/06/27 12:39 |
| S13 0 | 2 | "3545807".pn. | EPO; JPO; DERWENT | OR | OFF | 2011/06/27 12:43 |
| S13 1 | 3 | "2575637".pn. | EPO; JPO; DERWENT | OR | OFF | 2011/06/27 12:44 |

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| S13 2 | 13 | ((THEODOR) near2 (FISHLER)).INV. | US-PGPUB; USPAT | OR | OFF | 2011/06/27 12:45 |
| S13 3 | 13 | ((THEODOR) near2 (FISHLER)).INV. | EPO; JPO; DERWENT | OR | OFF | 2011/06/27 12:45 |
| S13 4 | 3185 | (TOCA) or (trichloroisocyanuric adj acid) or (trichloroiminocyanuric adj acid) or (isocyanuric adj chloride) or (neochlor) or (symclosen\$1) or (trichloro-s-triazinetriene) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2011/06/27 12:50 |
| S13 5 | 133697 | (boric adj acid) or (borax) or (boricin) or (sodium adj borate) or (sodium adj pyroborate) or (sodium adj tetraborate) or (disodium adj tetraborate) or (sodium adj biborate) or (sodium adj boron adj oxide) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2011/06/27 12:52 |
| S13 6 | 2481263 | silicate\$1 or silicon or silica | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2011/06/27 12:53 |
| S13 7 | 636 | S134 and S135 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2011/06/27 12:53 |
| S13 8 | 451 | S137 and S136 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2011/06/27 12:53 |
| S13 9 | 723 | ((TOCA) or (trichloroisocyanuric adj acid) or (trichloroiminocyanuric adj acid) or (isocyanuric adj chloride) or (neochlor) or (symclosen\$1) or (trichloro-s-triazinetriene)).ab. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2011/06/27 12:54 |
| S14 0 | 66 | S139 and S135 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2011/06/27 12:54 |
| S14 1 | 12 | S140 and S136 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2011/06/27 12:54 |
| S14 2 | 973858 | (clean\$4 or disinfect\$4 or biocid\$3 or detergent\$1).ab. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2011/06/27 13:38 |

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|----------|---------|---|---|----|-----|------------------|
| S14 3 | 3185 | (TOCA) or (trichloroisocyanuric adj acid) or (trichloroiminocyanuric adj acid) or (isocyanuric adj chloride) or (neochlor) or (symclosen\$1) or (trichloro-s-triazinetriene) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2011/06/27 13:38 |
| S14 4 | 133697 | (boric adj acid) or (borax) or (boricin) or (sodium adj borate) or (sodium adj pyroborate) or (sodium adj tetraborate) or (disodium adj tetraborate) or (sodium adj baborate) or (sodium adj boron adj oxide) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2011/06/27 13:38 |
| S14 5 | 2481263 | silicate\$1 or silicon or silica | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2011/06/27 13:38 |
| S14 6 | 636 | S143 and S144 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2011/06/27 13:38 |
| S14 7 | 451 | S146 and S145 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2011/06/27 13:38 |
| S14 8 | 188 | S142 and S147 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2011/06/27 13:38 |
| S14 9 | 384658 | silicate\$1 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2011/06/27 13:39 |
| S15 0 | 318 | S146 and S149 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2011/06/27 13:39 |
| S15 1 | 174 | S142 and S150 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2011/06/27 13:39 |
| S15 2 | 133 | bromine.as. | US-PGPUB; USPAT | OR | OFF | 2011/06/27 13:46 |
| S15 3 | 129 | (bromine adj compounds).as. | US-PGPUB; USPAT | OR | OFF | 2011/06/27 13:46 |
| S15 4 | 0 | S153 not S152 | US-PGPUB; USPAT | OR | OFF | 2011/06/27 13:46 |

EAST Search History (Prior Art)

| | | | | | | |
|----------|-------|----------------------------|---|----|-----|------------------|
| S15 5 | 144 | S150 not S151 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2011/06/27 14:08 |
| S15 6 | 15797 | sodium adj silicate\$1.ab. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2011/06/27 14:21 |
| S15 7 | 934 | S144 and S156 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2011/06/27 14:21 |
| S15 8 | 2 | S143 and S157 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2011/06/27 14:22 |
| S15 9 | 934 | L76and S157 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2011/06/27 14:23 |
| S16 0 | 147 | S142 and S157 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2011/06/27 14:23 |
| S16 1 | 145 | S160 not (S151 or S155) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2011/06/27 14:24 |
| S16 2 | 1 | "5783539".pn. | US-PGPUB; USPAT | OR | OFF | 2011/06/29 15:25 |
| S16 3 | 1 | "5624892".pn. | US-PGPUB; USPAT | OR | OFF | 2011/06/29 15:25 |
| S16 4 | 1 | "20030170317".pn. | US-PGPUB; USPAT | OR | OFF | 2011/06/29 15:26 |
| S16 5 | 1 | "20030132425".pn. | US-PGPUB; USPAT | OR | OFF | 2011/06/29 15:26 |
| S16 6 | 1 | "4156039".pn. | US-PGPUB; USPAT | OR | OFF | 2011/06/29 15:26 |
| S16 7 | 1 | "4194025".pn. | US-PGPUB; USPAT | OR | OFF | 2011/06/29 15:26 |
| S16 8 | 6 | "1337359".pn. | EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2011/06/29 15:26 |

EAST Search History (Prior Art)

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|----------|--------|--|--------------------|----|-----|------------------|
| S16 9 | 1185 | 514/241.CCLS. | US-PGPUB; USPAT | OR | OFF | 2011/06/29 15:57 |
| S17 0 | 932 | S169 AND (SILICA\$3 OR SILICON) | US-PGPUB; USPAT | OR | OFF | 2011/06/29 15:58 |
| S17 1 | 155217 | BORATE\$1 OR BORIC OR BORAX | US-PGPUB; USPAT | OR | OFF | 2011/06/29 15:58 |
| S17 2 | 126 | S170 AND S171 | US-PGPUB; USPAT | OR | OFF | 2011/06/29 15:58 |
| S17 3 | 47952 | (BIOCID\$3 OR DISINFECT\$4 OR \$5BACTERIA\$3 OR \$5MICROBIOCID\$3 OR STERILI\$6).AB. | US-PGPUB; USPAT | OR | OFF | 2011/06/29 16:00 |
| S17 4 | 7 | S172 AND S173 | US-PGPUB; USPAT | OR | OFF | 2011/06/29 16:00 |
| S17 5 | 137 | 65/424.CCLS. | US-PGPUB; USPAT | OR | OFF | 2011/06/29 16:02 |
| S17 6 | 0 | S173 AND S175 | US-PGPUB; USPAT | OR | OFF | 2011/06/29 16:02 |
| S17 7 | 29 | S173 AND S170 | US-PGPUB; USPAT | OR | OFF | 2011/06/29 16:02 |
| S17 8 | 0 | S175 AND S170 | US-PGPUB; USPAT | OR | OFF | 2011/06/29 16:03 |
| S17 9 | 1 | S175 AND S171 | US-PGPUB; USPAT | OR | OFF | 2011/06/29 16:03 |
| S18 0 | 744 | 424/658,659,660,698.CCLS. | US-PGPUB; USPAT | OR | OFF | 2011/06/29 16:03 |
| S18 1 | 43 | S173 AND S180 | US-PGPUB; USPAT | OR | OFF | 2011/06/29 16:04 |
| S18 2 | 126 | S170 AND S171 | US-PGPUB; USPAT | OR | OFF | 2011/06/29 16:04 |
| S18 3 | 43 | S181 AND S180 | US-PGPUB; USPAT | OR | OFF | 2011/06/29 16:04 |
| S18 4 | 0 | S181 AND S170 | US-PGPUB; USPAT | OR | OFF | 2011/06/29 16:04 |
| S18 5 | 3 | S170 AND S180 | US-PGPUB; USPAT | OR | OFF | 2011/06/29 16:06 |